DOCKET: 2003P260

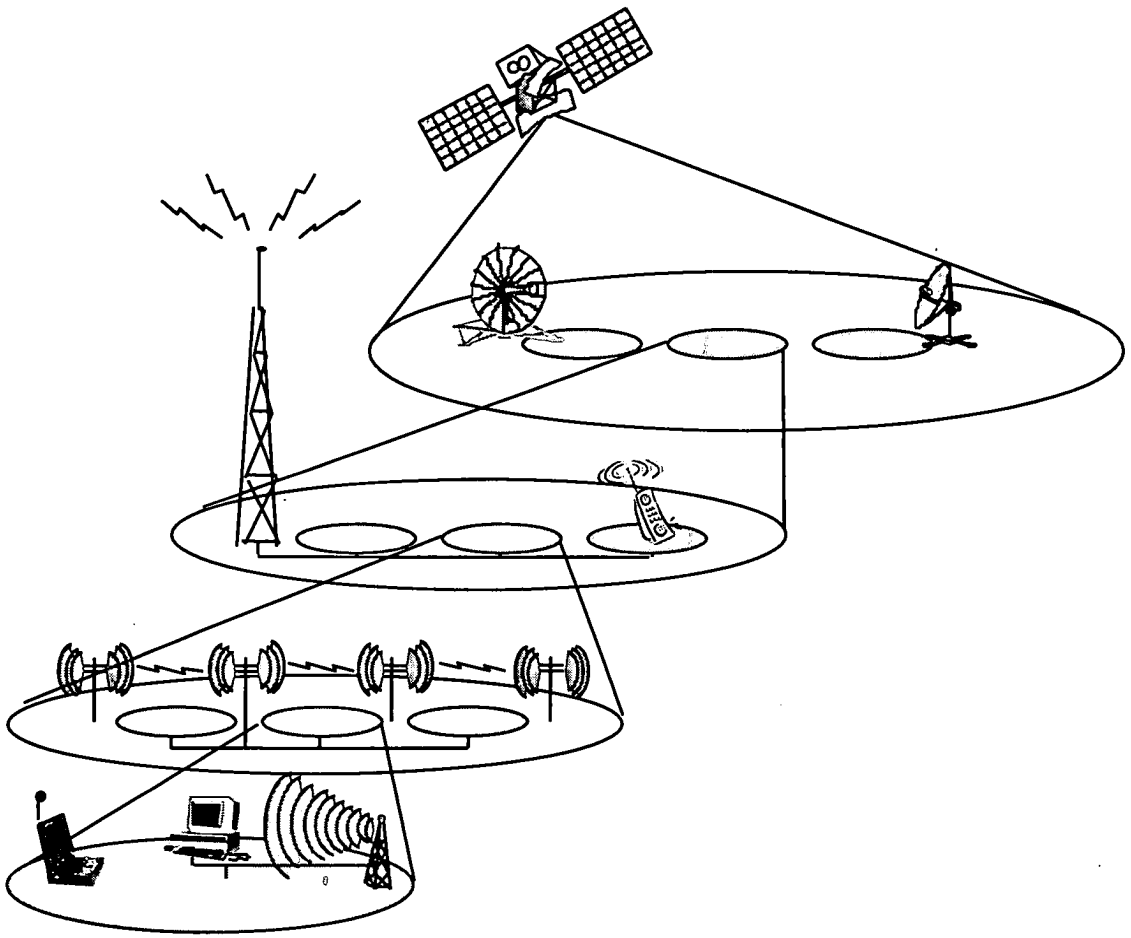


FIG. 1
(Prior Art)

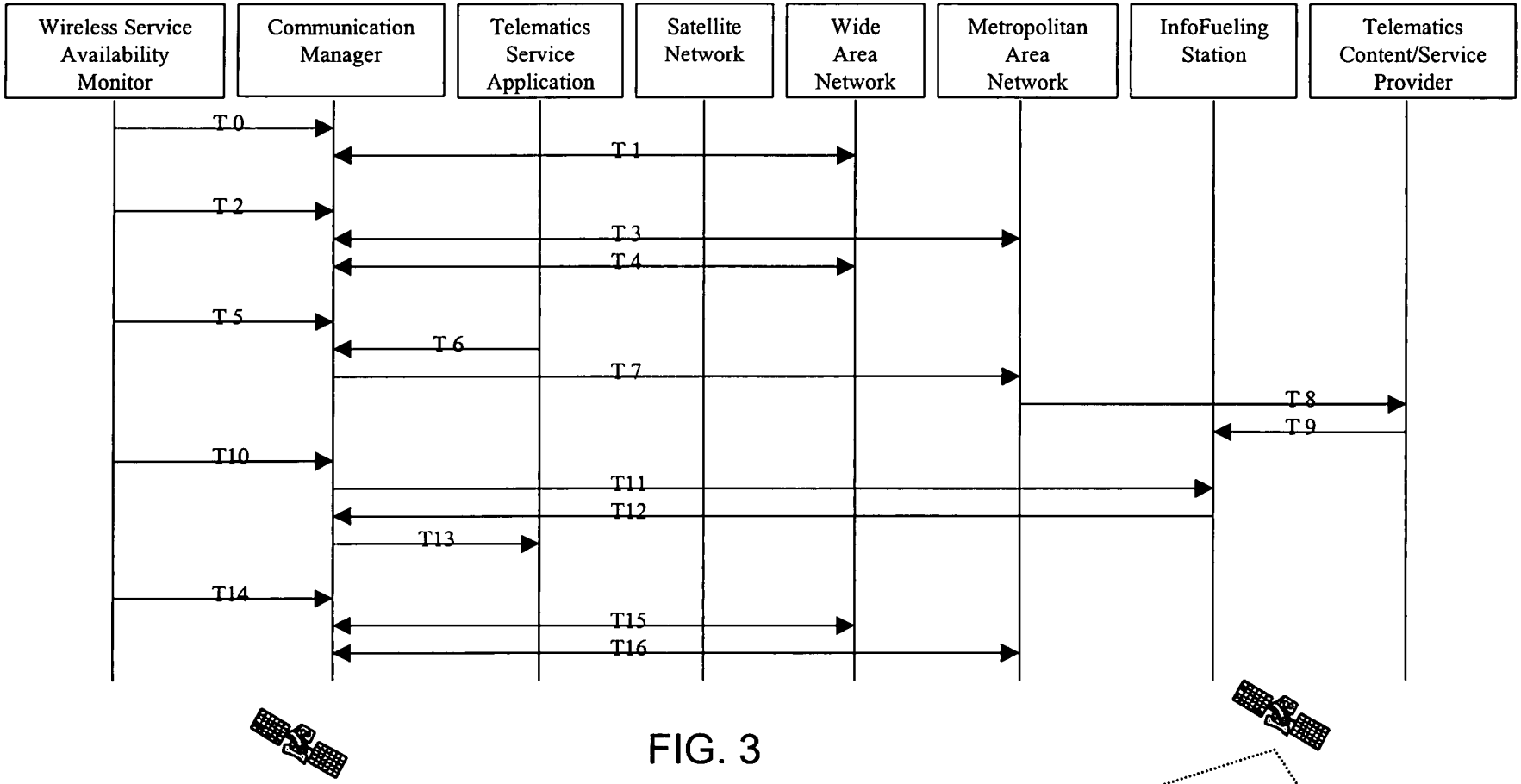

Wireless Service Availability Monitor
Communication Manager
Telematics Service Application
Satellite Network
Wide Area Network
Metropolitan Area Network
InfoFueling Station
Telematics Content/Service Provider
T 0
T 1
T 2
T 3
T 4
T 5
T 6
T 7
T 8
T 9
T10
T11
T12
T13
T14
T15
T16

FIG. 3

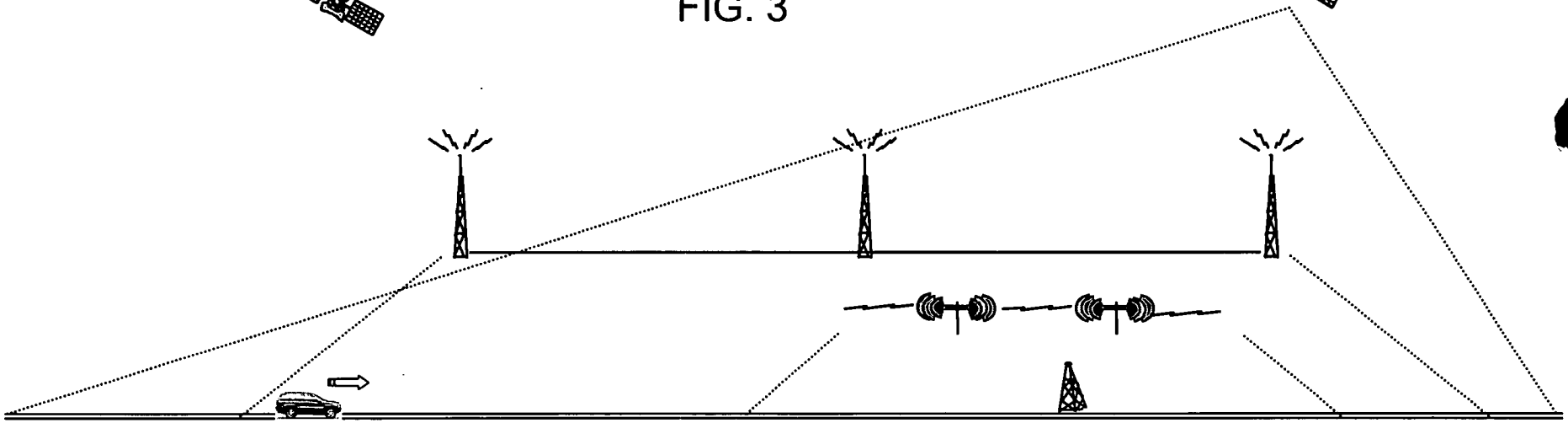
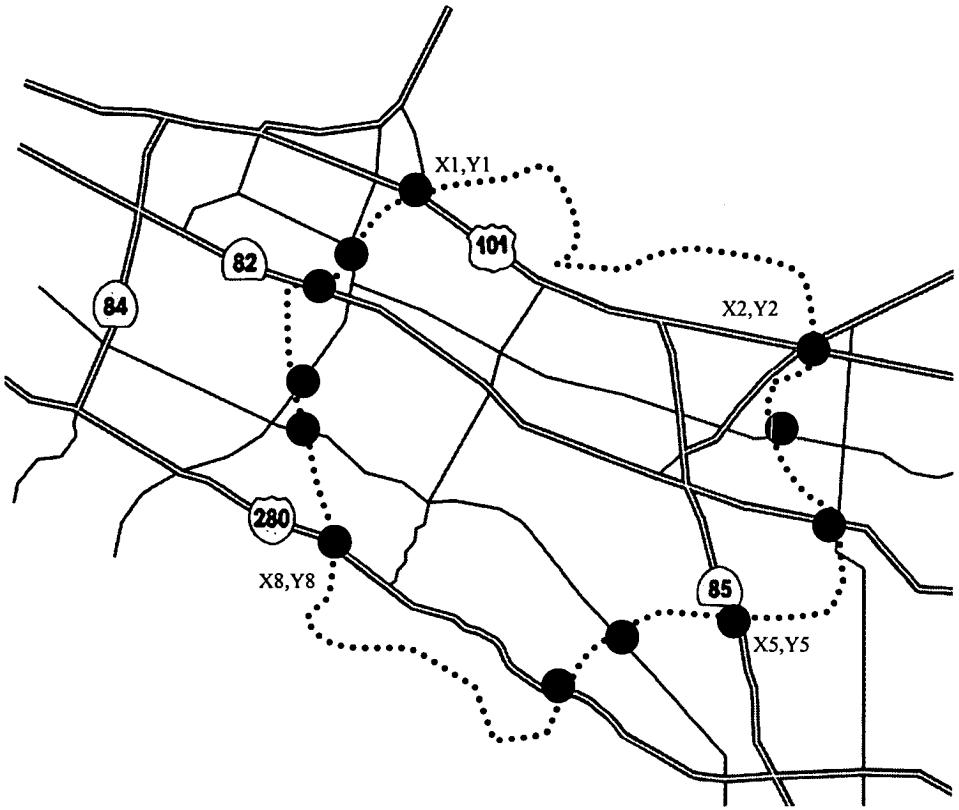

T0 – T1
T2 – T4
T5 – T9
T10 – T13
T14 – T16

FIG. 2



<HW101, (x1,y1), MAN boundary>
<HW101, (x2,y2), MAN boundary>
...
<HW85, (x5,y5), MAN boundary>
...
...
<HW280, (x8,y8), MAN boundary>
...
...

FIG. 4

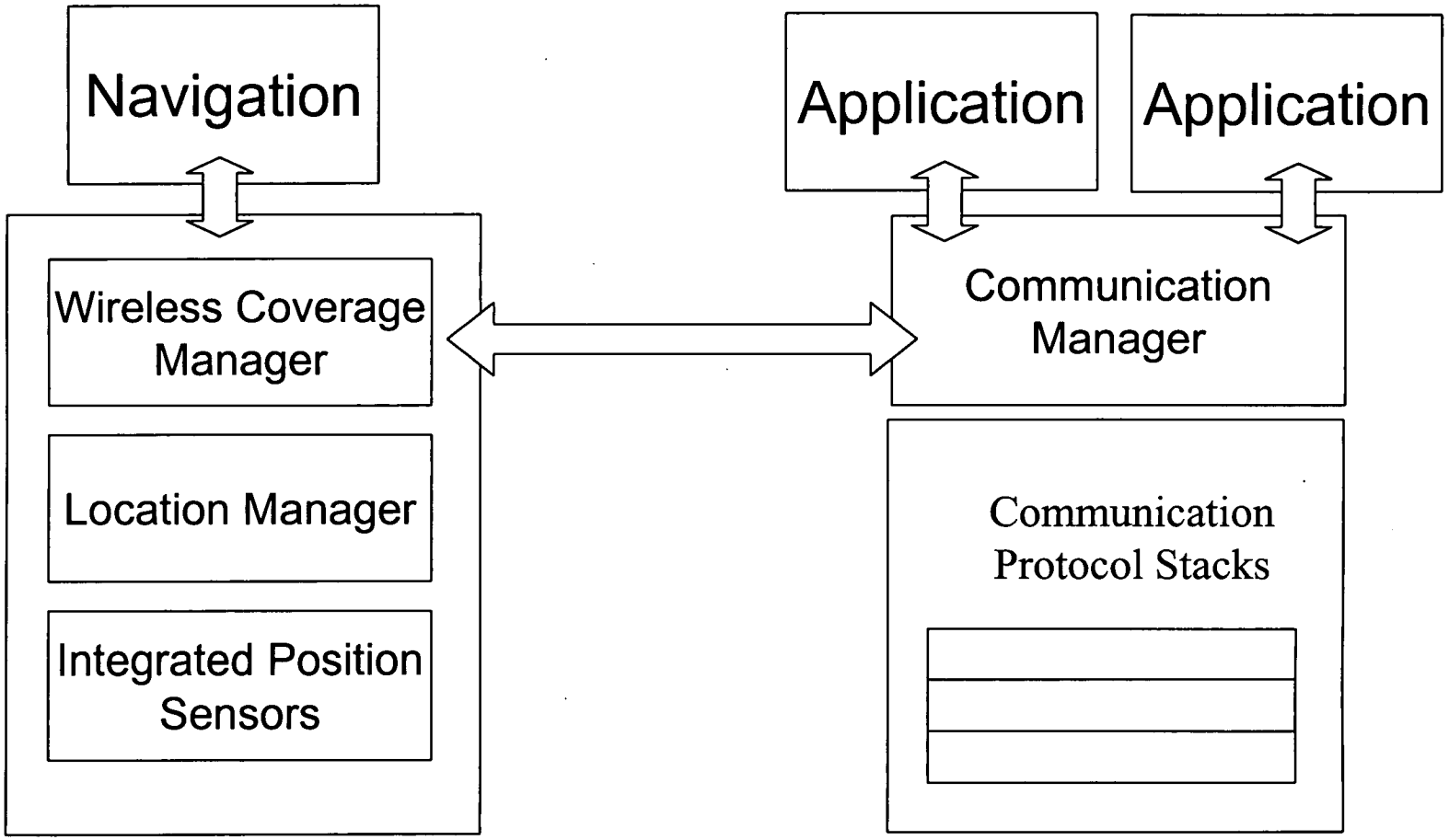

Navigation
Application
Application
Wireless Coverage Manager
Location Manager
Integrated Position Sensors
Communication Manager
Communication Protocol Stacks

FIG. 5

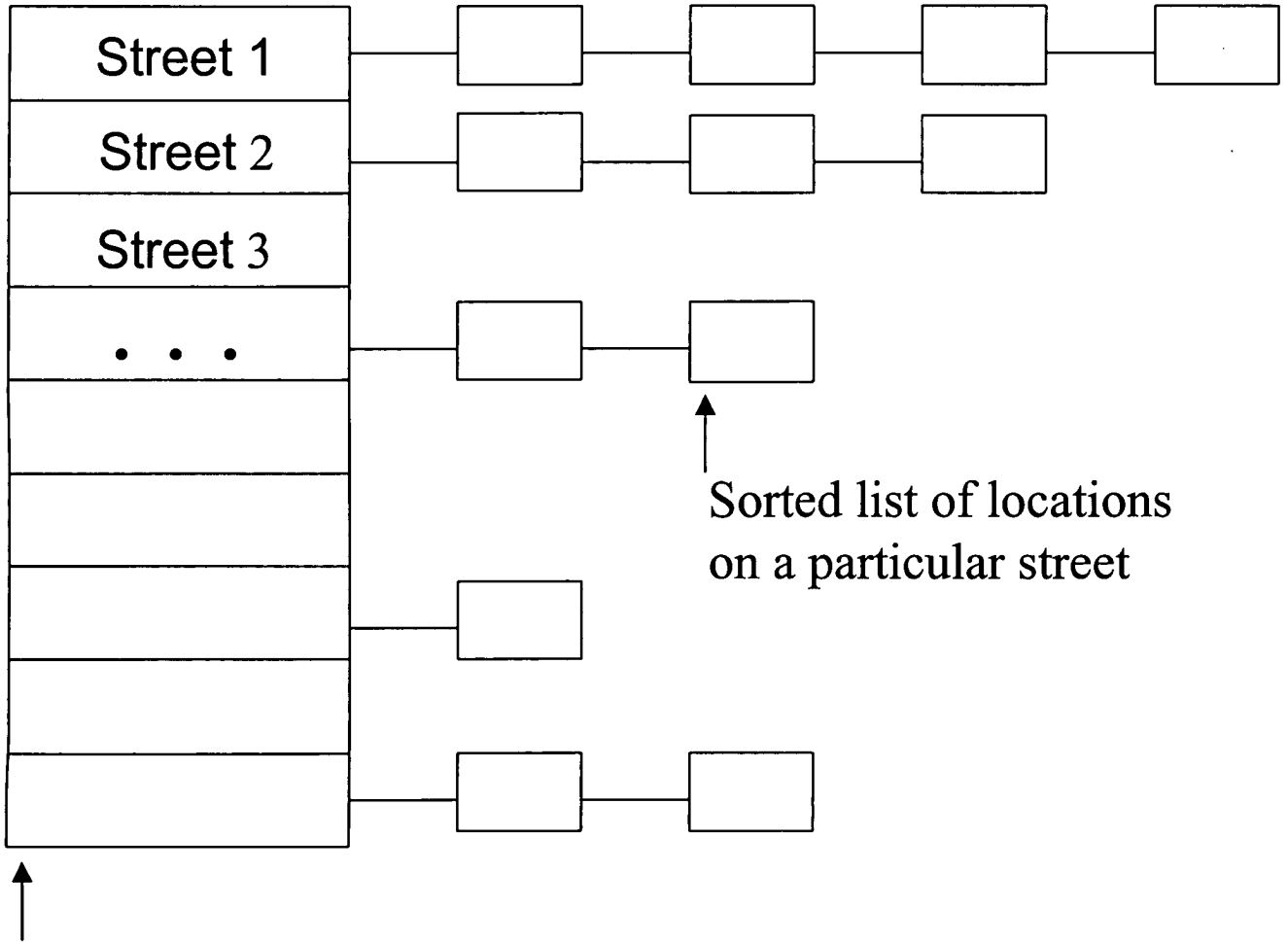

Street 1
Street 2
Street 3
. . .
Sorted list of locations
on a particular street
Registered locations
sorted by street

FIG. 6

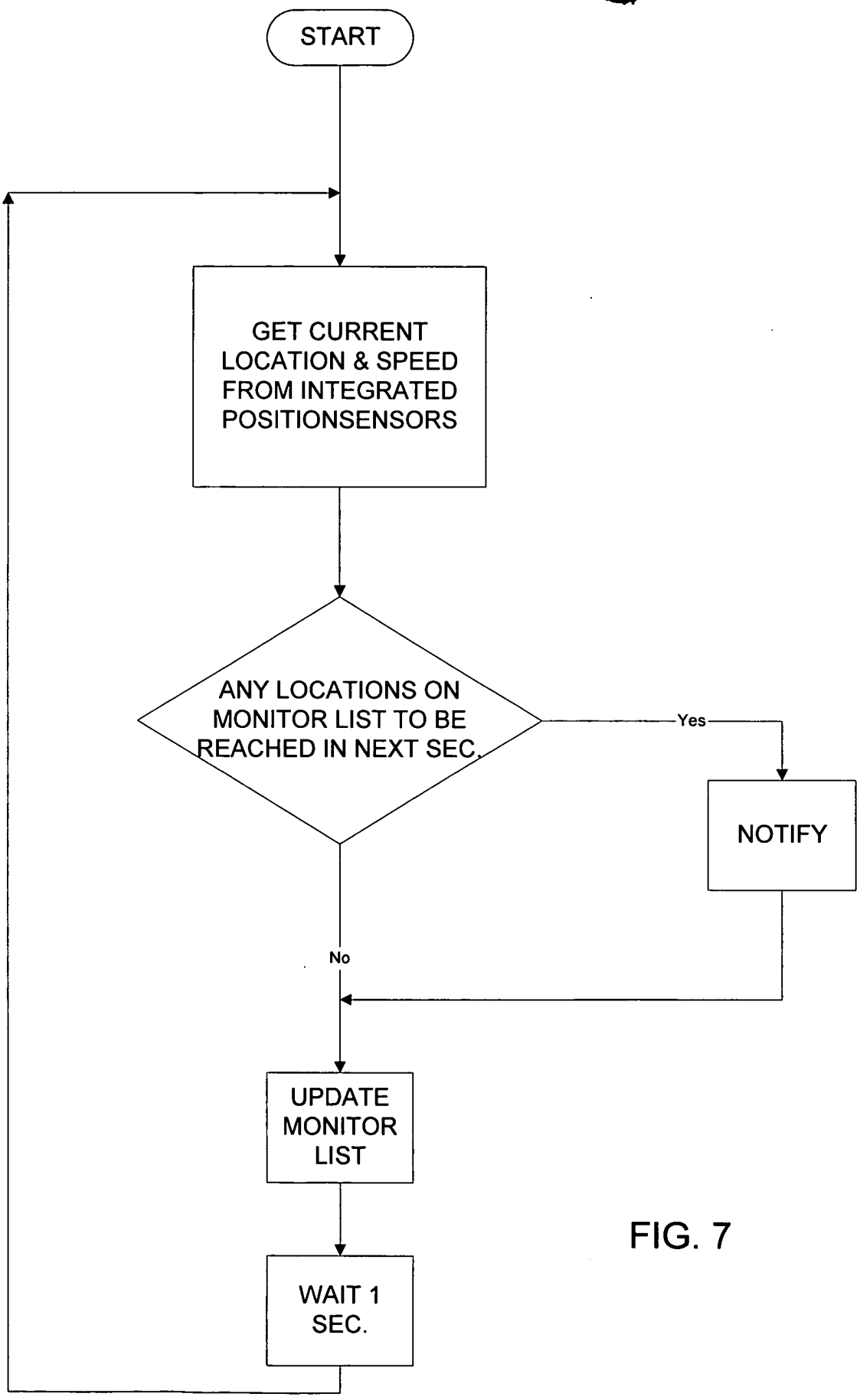

START
GET CURRENT LOCATION & SPEED FROM INTEGRATED POSITIONSENSORS
ANY LOCATIONS ON MONITOR LIST TO BE REACHED IN NEXT SEC.
Yes
NOTIFY
No
UPDATE MONITOR LIST
WAIT 1 SEC.

FIG. 7

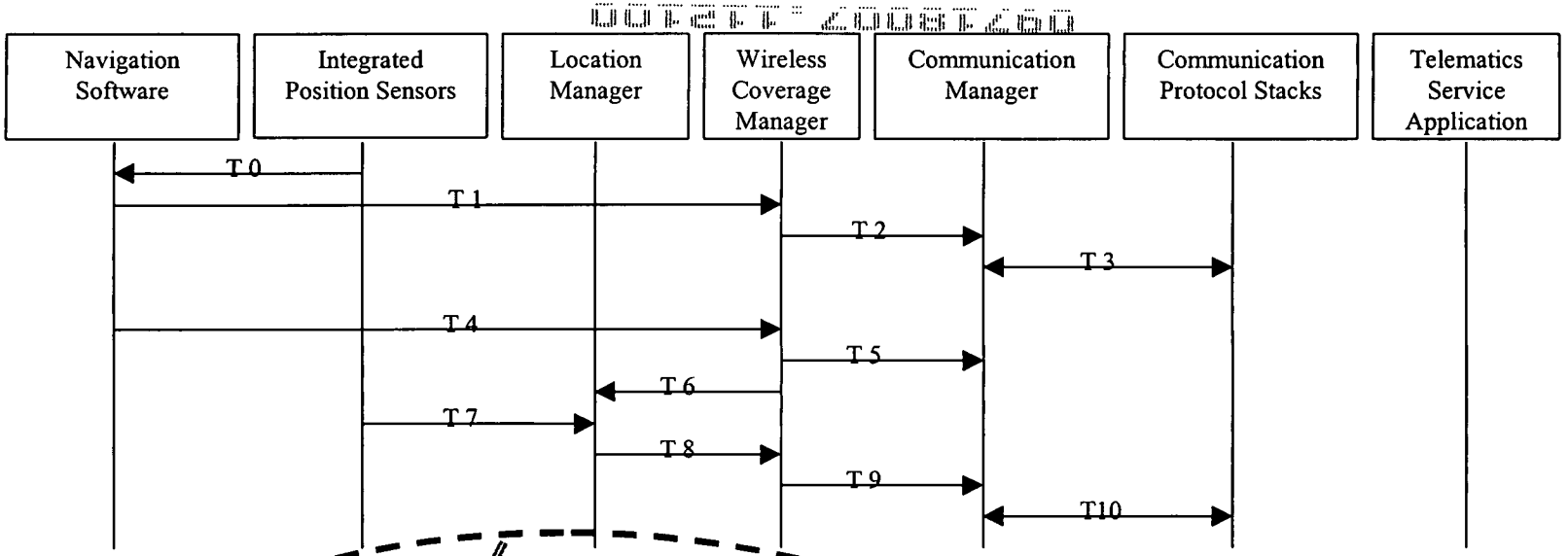

Navigation Software
Integrated Position Sensors
Location Manager
Wireless Coverage Manager
Communication Manager
Communication Protocol Stacks
Telematics Service Application
T 0
T 1
T 2
T 3
T 4
T 5
T 6
T 7
T 8
T 9
T10

FIG. 8

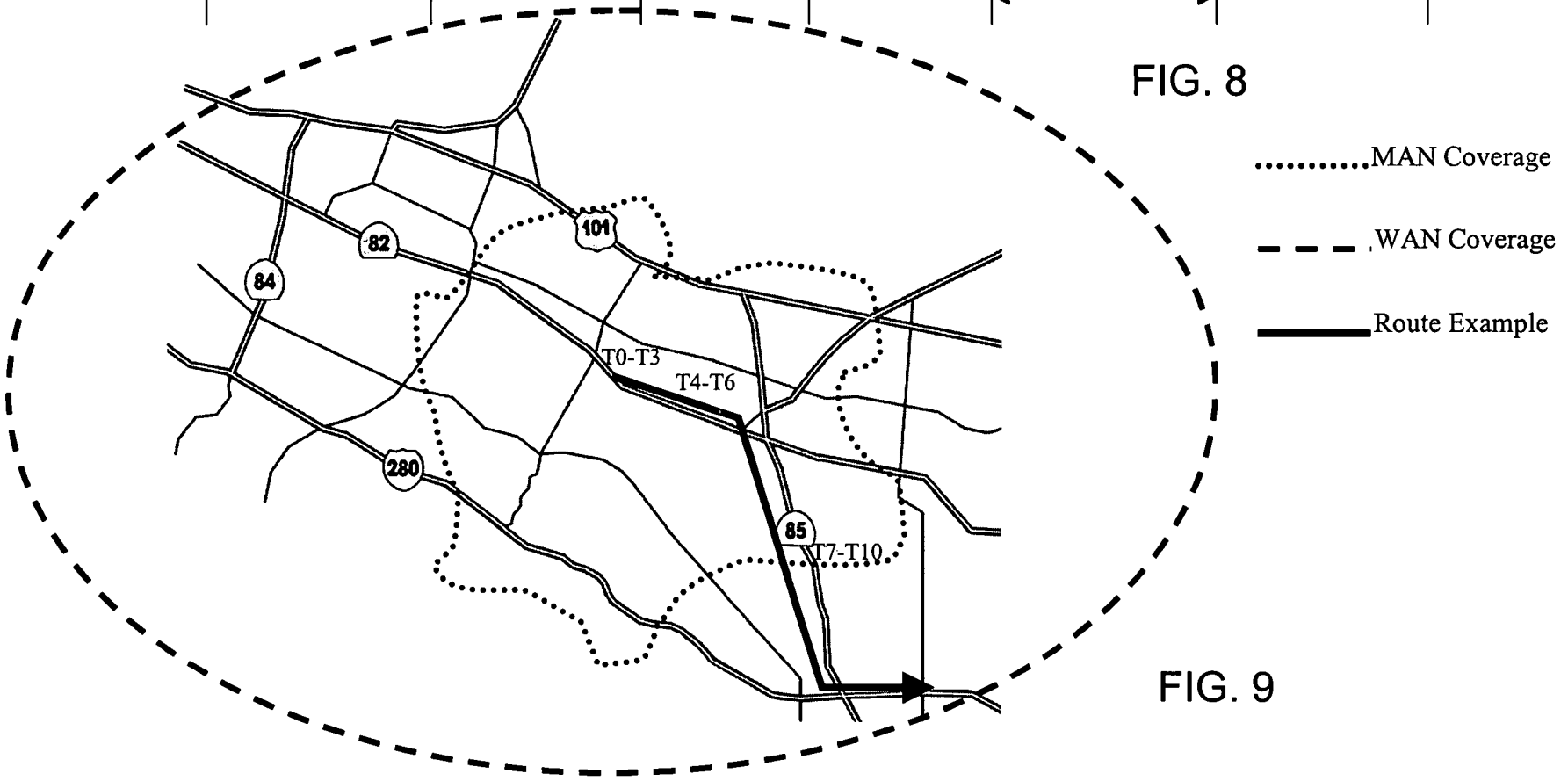

.....MAN Coverage
WAN Coverage
Route Example
82
84
101
280
85
T0-T3
T4-T6
T7-T10

FIG. 9

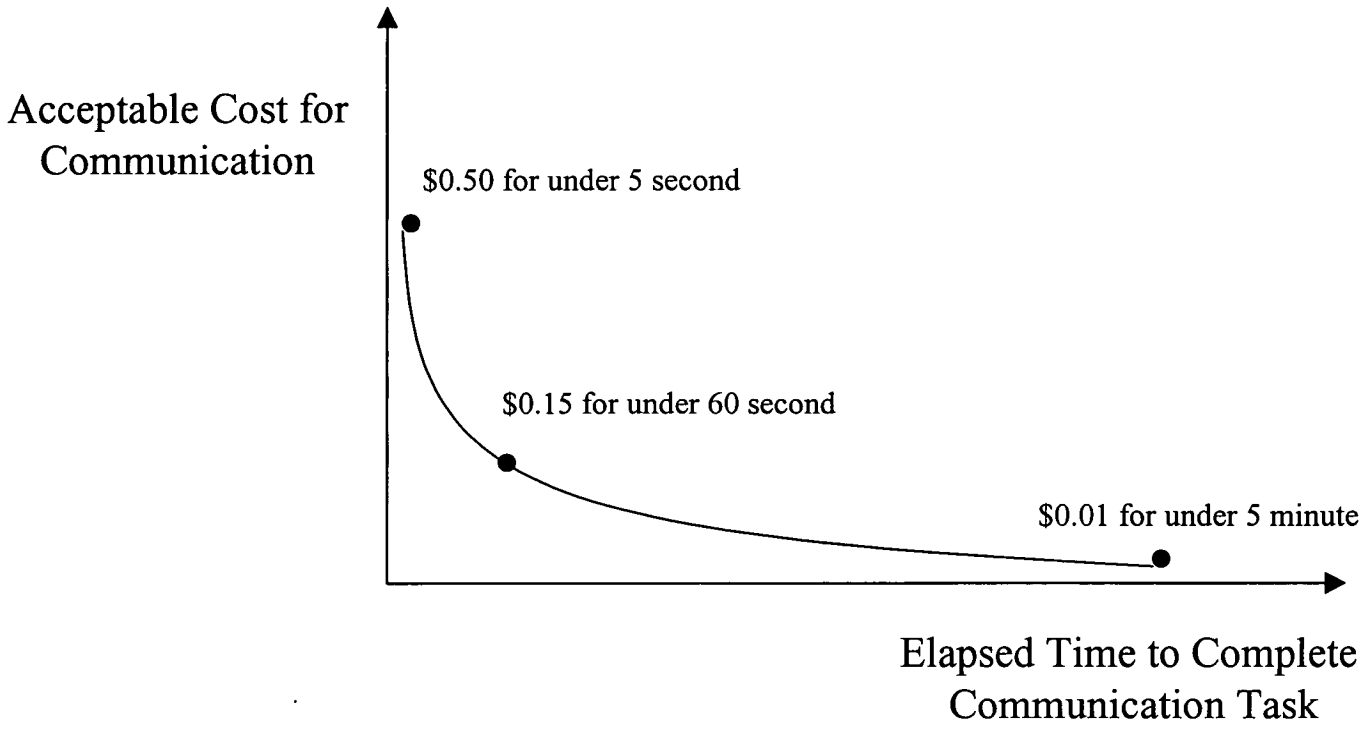

Acceptable Cost for Communication
$0.50 for under 5 second
$0.15 for under 60 second
$0.01 for under 5 minute
Elapsed Time to Complete Communication Task

FIG. 10